Tribhuvan University

Institute of Science and Technology

2079

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Bachelor Level/Second Year/Fourth Semester/Science   Full Marks: 60

Bachelors in Information Technology (BIT 253)   Pass Marks: 24

(System Analysis and Design)   Time: 3 Hours

Candidates are required to give their answers in their own words as for as practicable.

The figures in the margin indicate full marks.

Section A

Long Answer Questions

Attempt any TWO questions.   **[2x10=20]**

1. What is system development life cycle (SDLC)? Explain each phase of SDLC in detail.

   [2+8]

2. What is project planning? Explain project initiation and planning in detail.   [2 + 8]

3. Draw context diagram and data flow diagram for online food ordering system upto level2 which is used to sell different food items to its customers online.   [3 + 7]

Section B

Short Answer Questions

Attempt any EIGHT questions.   **[8x5=40]**

4. Explain object-oriented development with class diagram.   [5]

5. Why is project management important? How can you use network diagram to schedule software projects?   [2 + 3]

6. What is data modeling? Draw an ER diagram to keep records of students, courses, and grades at your college.   [1+4]

7. What is identification and selection of system development project? Explain.   [5]

8. How can you use interviewing technique to determine system requirements? Explain. [5]

9. How do you design interfaces and dialogues?   [5]

10. Why documentation and training are important?   [5]

[Contd…]

11. Define system maintenance. How do you conduct system maintenance? [1 + 4]

12. Write short notes on: [2x2.5=5]

    a. Rapid application development

    b. Econimic Feasibility.